ORDER NO.PHAMOS0601003A1
E1

Service Manual

Microwave Oven

NN-SN776S / NN-SN756S / NN-SN756B / NN-SN756BT / NN-SA746M

APH(USA)
CPH(CANADA)

Please file and use this specified manual together with the service manual for Model NN-T695 (ORDER NO. PHAMOS0501001C1).

SPECIFICATIONS

Specifications:

	Specifications for APH:			
Model / Specifications:	SM778S	SM758S	SM758S SM758ST	SM748S
Power Source:	120V AC Single Phase 60Hz			
Power Requirement:	1460W	1460W	1460W	1460W
Output:	1250W	1250W	1250W	1250W
	Specifications for CPH:			
Model / Specifications:	SM778S			
Power Source:	120V AC Single Phase 60Hz			
Power Requirement:	1460W			
Output:	1200W			
Microwave Frequency:	2450MHz			
Timer:	30 min. / Stage (HIGH Power) – 5 Stage (Maximum) 30 min. / 05 sec. / Stage (Other Power Levels) – 6 Stage Maximum			
Outside Dimensions:	21 5/8"(W) x 16 3/8"(D) x 12 3/4"(H) (550mm(W) x 415mm(D) x 325mm(H))			
Oven Cavity Dimensions:	13 3/4"(W) x 13 3/8"(D) x 8 3/4"(H) (350mm(W) x 340mm(D) x 222mm(H))			
Weight:	Approx. 31 lbs. (14 kg)			
PDF:	This product is PDF			
Specifications subject to change without notice.				

© 2006 Panasonic Home Appliances Microwave Oven (Shanghai) Co., Ltd. / All rights reserved. Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

WARNING

1. This product should be serviced only by trained, qualified personnel.
2. Though this product has been manufactured in compliance with:
   "Federal Performance Standard 21 CFR Subchapter J"(D.H.H.S); U.S.A. models
   or "Radiation Emitting Devices Act"(Health and Welfare Canada); Canadian models
   it is very important all repairs should be made in accordance with procedures described in this manual to avoid being exposed to excessive microwave radiation.
3. Check for radiation leakage before and after every servicing according to the "procedure for measuring radiation leakage."
4. If the unit cannot be repaired on site, advise the customer not to use until unit is repaired.
5. Any serviceman who learns of any accident pertaining to microwave radiation leakage including the oven operating with open door should immediately notify the appropriate address listed below and Center for Devices and Radiological Health, DHHS.

IN U.S.A. (PASC)	Panasonic Services Company 50 Meadow and Parkway, Secaucus, New Jersey 07094 Attention: Technical Service Division (201)348-7000	IN PUERTO RICO (PSC)	PSC San Gabriel Industrial Park 65th Infantry Ave. Km 9.5 Carolina, Puerto Rico 00985 (787)750-4300
		IN CANADA (PCI)	Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario, L4W2T3 (905)624-5010

6. There are special components used in the microwave oven which are important for safety. These parts are marked with a ⚠ on the replacement parts list. It is essential that these critical parts should be replaced only with the manufacturer's specified parts to prevent microwave leakage, shock, fire, or other hazards. Do not modify the original design.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(A) Do not operate or allow the oven to be operated with the [illegible] inspection with in the microwave generating compartments.

DANGER OF HIGH VOLTAGE AND HIGH TEMPERATURE (HOT/LIVE) OF THE INVERTER POWER SUPPLY (U)

INVERTER WARNING

This Inverter board looks like a regular PCB. However, this PCB drives the magnetron tube with extremely high voltage and high current. NEW H.V.

IT HAS:
1. Very high voltage and high current circuits.
   It functions the same as the high voltage transformer and high voltage capacitor in ordinary microwave ovens.
2. Aluminum heat sink that is energized with very high voltage and high heat energy.
3. Very high voltage which may remain in circuitry even when oven is off. High voltage charge may remain in the capacitors on the board.

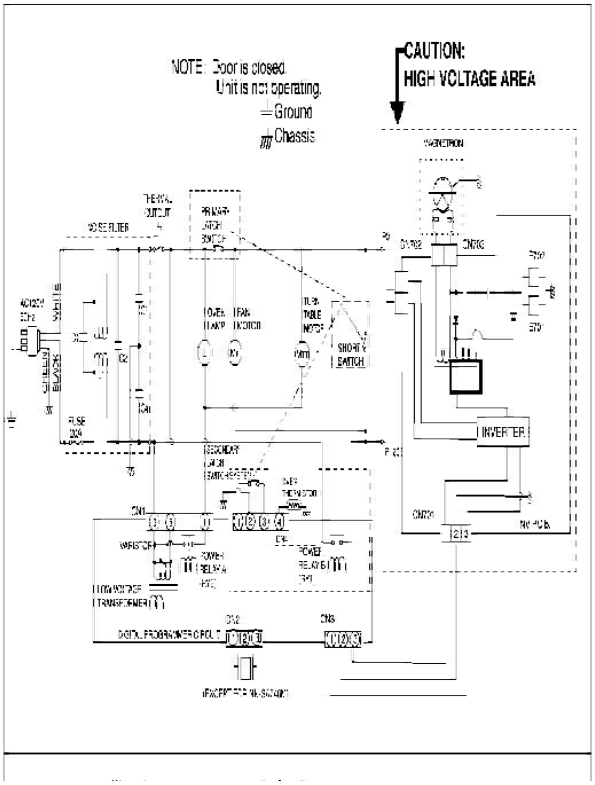
DO NOT:

1. Do not touch circuitry because it has very hot (high voltage) circuitry. Even when replacing board, extreme care should be taken to avoid possible electric shock hazards. High voltage charge may remain in circuits.
2. Do not touch aluminum heat sink because it is energized with very high voltage and is also very hot in high heat energy.
3. Do not try to adjust or tamper with preset control on the Inverter board because it is very dangerous to adjust without proper test equipment.
4. Do not test oven while Inverter grounding plate or screws are loose. It is very dangerous to operate H.V. Inverter Circuit (U) with loose mounting screws or if improperly grounded.
5. For USA only:
   Do not try to repair Inverter PCB because it is very dangerous to repair. Replace as a complete High Voltage Inverter Circuit unit and return fully re-packed in original shipping box and shipping materials.

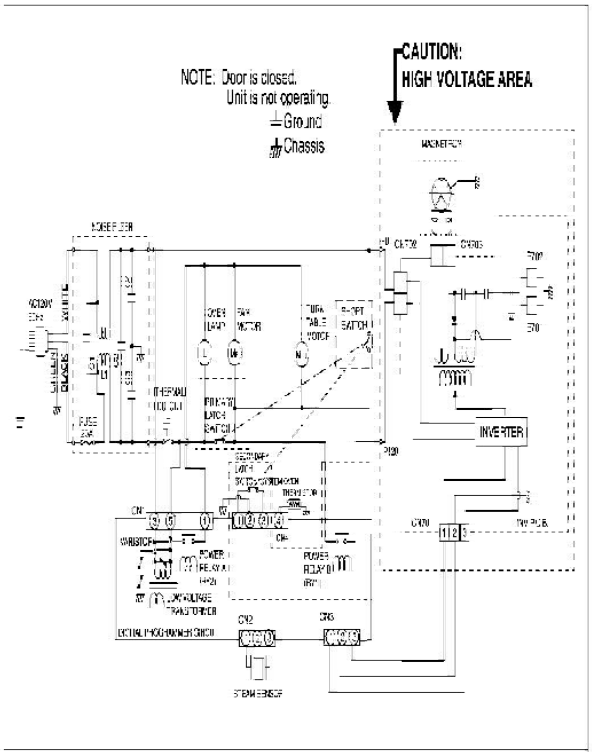
INVERTER POWER SUPPLY

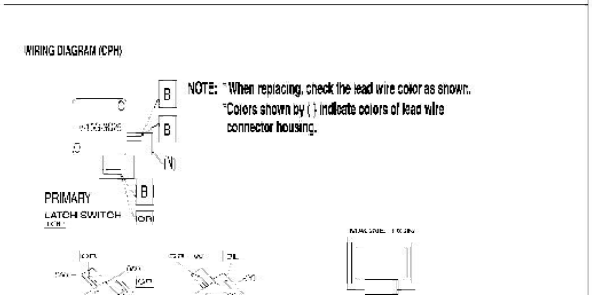
1. SCHEMATIC DIAGRAM

1.1. APH



1.2. CPH




WIRING DIAGRAM (CPH)
NOTE: *When replacing, check the lead wire color as shown.
*Colors shown by ( ) indicate colors of lead wire connector housing.
PRIMARY
LATCH SWITCH

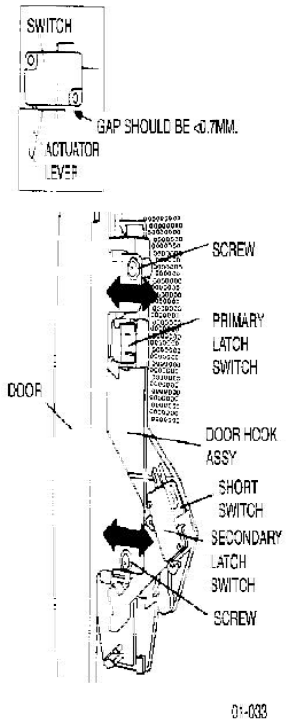
2. MEASUREMENTS AND ADJUSTMENTS

WARNING

- For continued protection against radiation hazard, replace only with identical replacement parts (For touch models part No. J61424T00AP, Type No. V-15G-3C25 for primary latch switch; Part No. J61414T00AP Type No. D3V-8G-3C25 for Secondary latch switch and Part No. J61784T00AP, Type No. D3V-1G-2C25 for short switch.)
- When the 20 Amp. fuse is blown due to the operation of the short switch, you must replace power relay B (part No. AEBGJQC25F18, Type No.G5G-1A18VDC), Primary latch switch and the short switch. Then follow the installation procedures below.
- Interlock switch replacement In replacing faulty switches, be sure mounting tabs are not bent, broken or otherwise deficient in their ability to hold the switches.
- Refer to schematic diagram to ensure proper connection.

2.1. Adjustment of primary latch switch, secondary latch switch and short switch.

1. **Mount the Primary latch switch, the Secondary latch switch and the short switch to the door hook assembly as shown in ILL.**
   NOTE:
   No specific individual adjustments during installation of the Primary latch switch, Secondary latch switch or Short switch to the door hook are required.
2. **When mounting the door hook assembly to the oven assembly, adjust the door hook assembly by moving it in the direction of the arrows in the illustration so that the oven door will not have any play in it. Check for play in the door by pulling the door assembly. Make sure that the latch keys move smoothly after adjustment is completed. Completely tighten the screws holding the door hook assembly to the oven assembly.**
3. **Reconnect the short switch and check the continuity of the monitor circuit and all latch switches again by following the component test procedures.**



2.2. Measurement of microwave output

The output power of the magnetron can be determined by performing IEC standard test procedures. However,due to the complexity of IEC test procedures, it is recommended to test the magnetron using the simple method outlined below.

Necessary Equipment:

***1 liter beaker *Glass thermometer / *Wrist watch or stopwatch**

NOTE:

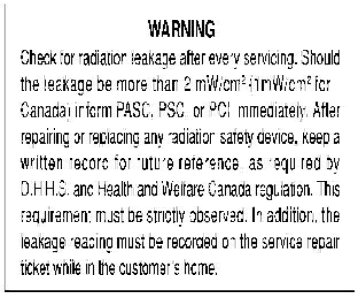
Check the line voltage under load.Low voltage will lower the magnetron output. Take the temperature readings and heating time as accurately as possible.

1. **Fill the beaker with exactly one liter of tap water.Stir the water using the thermometer and record the water's temperature. (recorded as T1).**
2. **Place the beaker on the center of glass tray. / Set the oven for High power and heat it for exactly one minute.**
3. **Stir the water again and read the temperature of the water. (recorded as T2).**
4. **The normal temperature rise at High power level for each model is as shown in table.**

TABLE (1L-1min.test)

RATED OUTPUT	TEMPERATURE RISE
1200W	Min. 18.5°F(10.3°C)
1300W	Min. 19.8°F(11.1°C)

3. PROCEDURE FOR MEASURING MICROWAVE ENERGY LEAKAGE



WARNING

Check for radiation leakage after every servicing. Should the leakage be more than 2 mW/cm² (1mW/cm² for Canada) inform PASC, PSC, or PCI immediately. After repairing or replacing any radiation safety device, keep a written record for future reference as required by D.H.H.S. and Health and Welfare Canada regulation. This requirement must be strictly observed. In addition, the leakage reading must be recorded on the service repair ticket while in the customer's home.

NOTE:

The U.S. Government standard is 5 mW/cm2 while in the customer's home. 2mW/cm2 stated here is our own voluntary standard. (1mW/cm2 for Canada)

3.1. Equipment

- Electromagnatic radiation monitor
- Glass thermometer 212°F or 100°C
- 600cc glass beaker

3.2. Procedure for measuring radiation leakage

Note before measuring.

- Do not exceed meter full scale deflection. Leakage monitor should initially be set to the highest scale.
- To prevent false readings the test probe should be held by the grip portion of the handle only and moved along the shaded area in Figure no faster than 1 inch/sec (2.5cm/sec).
- Leakage with the outer panel removed ..... less than 5mW/cm2.
- Leakage for a fully assembled oven with door normally closed ..... less than 2mW/cm 2 (1mW/cm 2 for Canada).
- Leakage for a fully assembled oven [Before the latch switch (primary) is interrupted] while pulling the door ..... less than 2mW/cm 2.

1. Pour 275 ± 15cc (9ozs± 1/2oz) of 20°C ± 5°C (68° ± 9°F) water in a beaker which is graduated to 600cc, and place in the center of the oven.
2. Set the radiation monitor to 2450MHz and use it following the manufacturer's recommended test procedure to assure correct results.
3. When measuring the leakage, always use the 2 inch (5cm) spacer

supplied with the probe.

4. Tap the start pad or set the timer and with the magnetron oscillating, measure the leakage by holding the probe perpendicular to the surface being measured.

3.2.1. Measurement with the outer panel removed.

Whenever you replace the magnetron, measure for radiation leakage before the outer panel is installed and after all necessary components are replaced or adjusted. Special care should be taken in measuring around the magnetron.

3.2.2. Measurements with a fully assembled oven.

After all components, including outer panel are fully assembled, measure for radiation leakage around the door periphery, the door viewing window, the exhaust opening, control panel and air inlet openings.

3.3. Record keeping and notification after measurement

- After any adjustment or repair to a microwave oven, a leakage reading must be taken. Record this leakage reading on the repair ticket even if it is zero.
  A copy of this repair ticket and the microwave leakage reading should be kept by repair facility.
- Should the radiation leakage be more than 2 mW/cm^2 (1mW/cm for Canada) after determining that all parts are in good condition, functioning properly, and genuine replacement parts as listed in this manual have been used, immediately notify PASC, PSC or PCI.

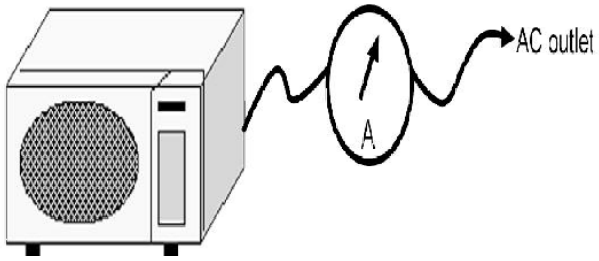
3.4. At least once a year, have the radiation monitor checked for calibration by its manufacturer.

4. SIMPLE WAY OF H.V. INVERTER/MAGNETRON

TROUBLESHOOTING

Purpose:
Simple way (3/23 seconds rule) of identifying whether it's Magnetron, Inverter, or others.

Set-up:
The unit under question is connected through the Ammeter as shown below.



Procedure:
Follow the matrix table below to identify the problem source.

Note:

Do not replace both Inverter board and Magnetron simultaneously and automatically without going through this procedure.

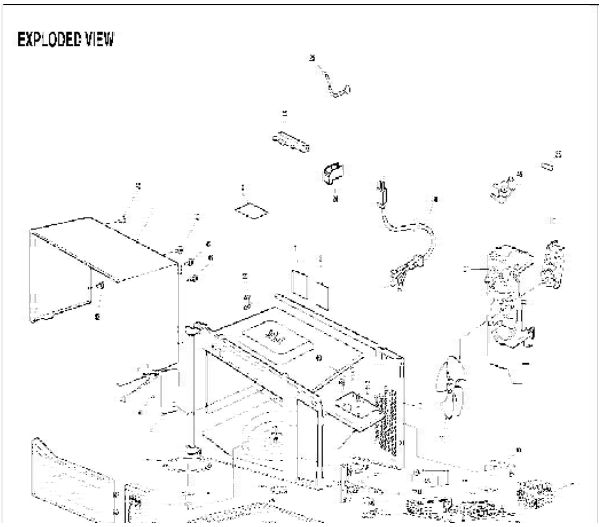
Power will:	Ammeter reading is:	To do:	Remedy:
Shut off in 23 seconds after "Start".	1. Between 0.5A and 1.0A.	Check and repair open magnetron circuit	Open magnetron wiring between Inverter and magnetron terminal.
	2. Between 1.0A and 2.0A.	Check continuity of D702 in Inverter PCB.	
		1. D702 shorted	Replace H.V.Inverter (F606Y6G00CP)
		2. D702 is OK	Replace magnetron
Shut off in 3 seconds after "Start"	1. Less than 0.5A	Check open circuit: Latch Switch, DPC, Power Relay and CN701	Replace defective component(s), or correct switch, cables and connectors.

5. H.V.INVERTER BOARD MAIN PARTS LIST (F606Y6G00CP)

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
C707		ECWH30822JUA	CAPACITOR	1	8200PF,3000VDC
C706		ECWH30562JUA	CAPACITOR	1	5600PF,3000VDC
D701,D702	⚠	B0FBAZ000001	DIODE SI	2	
DB701		B0FBBS000001	BRIDGE DIODE	1	20A,600V
L701		F50206G00AP	CHOKE COIL	1	
Q701		B1JAGV000008	TRANSISTOR SI	1	900V
T701		A609A6G00CP	H.V. TRANSFORMER	1	
C701		ECWF5324N310	CAPACITOR	1	
C702		ECWF2455N614	CAPACITOR	1	
D709		ERZV10D621CS	VARISTOR	1	

6. EXPLODED VIEW AND PARTS LIST

6.1. EXPLODED VIEW



6.2. PARTS LIST

NOTE:

1. When ordering replacement part(s), please use part number(s) shown in this part list.
Do not use description of the part.

2. Important safety notice:
Components identified by mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's

specified parts.

NOTE:

“A” parts are supplied by CSD (Japan)

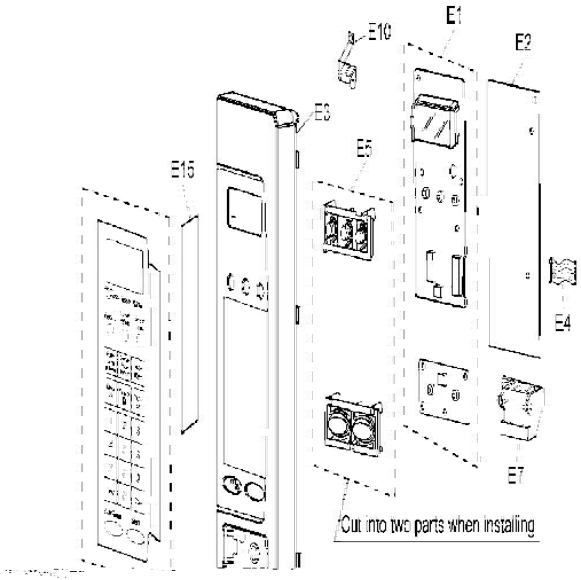
“F” parts are supplied by PHAMOS (China)

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
1		F00064W70AP	CAUTION LABEL	1	SN776S APH,SN756S APH
1		F00069660AP	CAUTION LABEL	1	SN756B APH,SN756BT APH,SA746M APH
1		F00067600CP	CAUTION LABEL	1	CPH
2		F00078E10BAP	NAME PLATE	1	SN756B APH
2		F00078E10APT	NAME PLATE	1	SN756BT APH
2		F00078E30SAP	NAME PLATE	1	SA746M APH
3		F00338F00AP	FUSE LABEL	1	
4		F10016H60APG	BASE	1	
5		F10084T00AP	RUBBER FOOT	4	
6		F110D5X00SAP	CABINET BODY(U)	1	SN776S CPH
6		F110D5X20SAP	CABINET BODY(U)	1	SN776S APH,SN756S APH,SA746M APH
6		F110D5X20BAP	CABINET BODY(U)	1	SN756B APH,SN756BT APH
7		F200A8E00AP	OVEN(U)	1	EXCEPT SA746M APH
7		F200A8E40AP	OVEN(U)	1	SA746M APH
8		F20555K00AP	COVER	1	
9		F21315Y00AP	PULLY SHAFT	1	
10		F2177-F80	WASHER	1	
11		F290D9330AP	ROLLER RING(U)	1	
12		F3020-1200	DOOR HOOK	1	
14		F3136-1200	HOOK LEVER A	1	
15		F31374650AP	HOOK LEVER B	1	
16		F31384650AP	HOOK LEVER C	1	
17		F400A5Y00AP	FAN MOTOR	1	AC120V,SINGLE PHASE,60Hz
18		F40084T00AP	FAN BLADE	1	
19		F40254W00AP	AIR GUIDE A	1	
20		F40264T60APG	AIR GUIDE B	1	
21		F41445W00AP	ORIFICE	1	
22		F64508660AP	SENSOR COVER B	1	EXCEPT SA746M APH
24		F65434W00AP	SENSOR COVER C	1	EXCEPT SA746M APH
25		A607S4M00AP	STEAM SENSOR	1	EXCEPT SA746M APH
26		F612E5Y30AP	INCANDESCENT LAMP(U)	1	
27		J61415G10XN	MICRO SWITCH	1	(PRIMARY LATCH SWITCH) (V-15G-3C25)
28		J61414T00AP	MICRO SWITCH	1	(SECONDARY LATCH SWITCH) (D3V-16G-3C25)
29		F61456N60AP	THERMAL CUTOUT	1	150°C/-20°C
31		F61785U30XN	MICRO SWITCH	1	(SHORT SWITCH) (D3V-1G-2C25)
32		F606Y6G00CP	H.V.INVERTER(U)	1	
33		F65856K50AP	INVERTER BRACKET	1	
34		2M261-M32KLY	MAGNETRON	1	APH
34		2M261-M32J	MAGNETRON	1	CPH
35		F62308F00AP	FUSE	1	20A/120V,60Hz
37		F63265G60AP	TURNTABLE MOTOR	1	
38		F900C4T60CP	AC CORD W/PLUG	1	SN776S APH,SN756S APH
38		F900C4T00AP	AC CORD W/PLUG	1	SN756B APH,SN756BT APH,SA746M APH
38		F900C4W10CP	AC CORD W/PLUG	1	CPH
39		F66626H60AP	GROUNDING PLATE	1	

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
40		XTWFA4+12T	SCREW	4	FOR MAGNETRON
41		F90804W00AP	CANOE CLIP	1	FOR COVER
42		XTTAFE4T12A0	SCREW	5	FOR CABINET BODY
43		XTTFA4+6BFZ	SCREW	2	FOR CABINET BODY SIDE (SN756B APH,SN756BT APH)
43		XTTFA4+6BN	SCREW	2	FOR CABINET BODY SIDE (EXCEPT SN756B APH & SN756BT APH)
45		F692Y8A00AP	NOISE FILTER	1	
46		F03347D60AP	MENU LABEL	1	SN776S APH
46		F03347D60CP	MENU LABEL	1	SN776S CPH

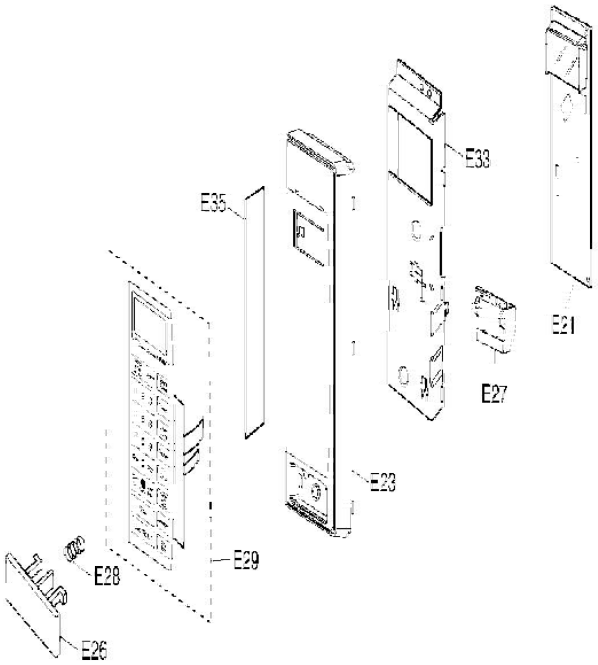
6.3. ESCUTCHEON BASE ASSEMBLY

6.3.1. NN-SN776S APH/CPH



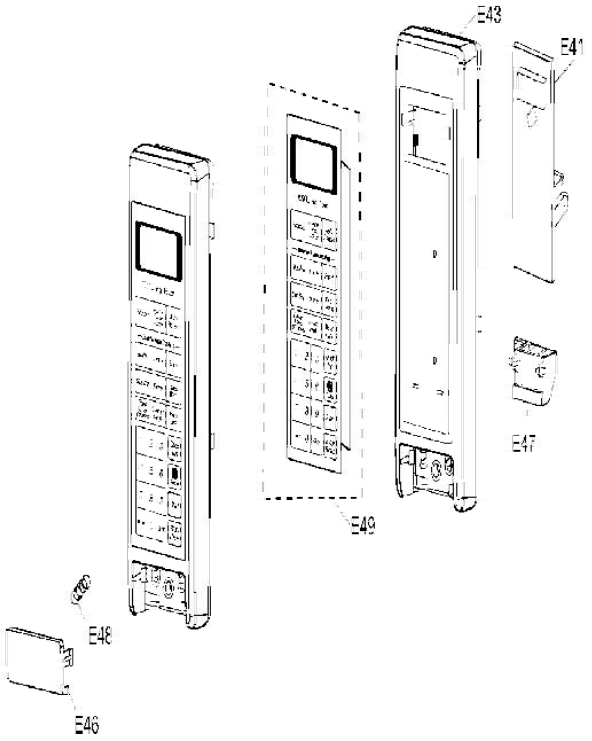
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E1		F603L8E00AP	D.P.CIRCUIT (AU)	1	SN776S APH
E1		F603L8E00CP	D.P.CIRCUIT (AU)	1	SN776S CPH
E2		F603Y5W00AP	D.P.CIRCUIT (DU)	1	SN776S APH
E2		F603Y5W00CP	D.P.CIRCUIT (DU)	1	SN776S CPH
E3		F800L8E00SAP	ESCUTCHEON BASE (U)	1	SN776S APH/CPH
E4		F66164W20AP	FLAT CABLE	1	SN776S APH/CPH
E5		F82988F00KAP	BUTTON	1	SN776S APH/CPH
E6		F80724W70SAP	DOOR OPENING BUTTON (U)	1	SN776S APH/CPH
E7		F82565X00AP	DOOR OPENING LEVER	1	SN776S APH/CPH
E8		F80375K00AP	COOK BUTTON SPRING	1	
E9		F630Y8E00BAP	MEMBRANE SWITCH (U)	1	SN776S APH
E9		F630Y8E00SCP	MEMBRANE SWITCH (U)	1	SN776S CPH
E10		F90095X00AP	GROUNDING PANEL	1	SN776S APH/CPH
E15		F00078E00SAP	NAME PLATE	1	SN776S APH
E15		F00078E00SCP	NAME PLATE	1	SN776S CPH

6.3.2. NN-SN756S APH



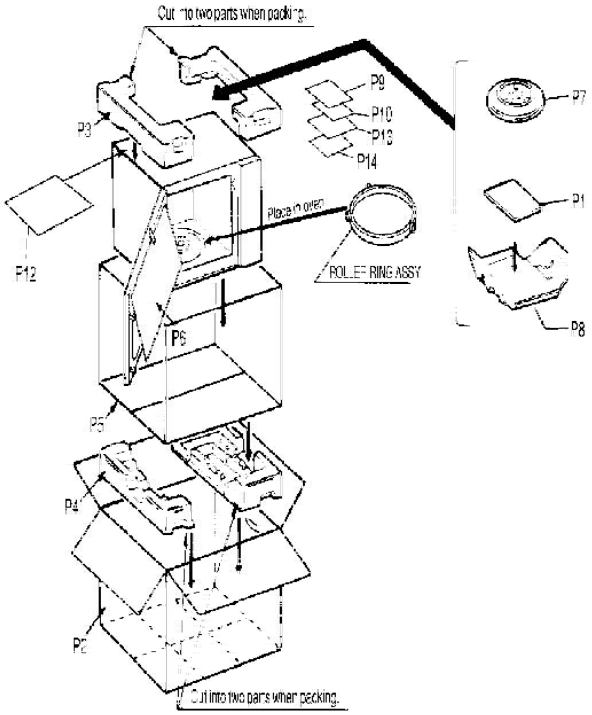
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E21		F603L7B90AP	D.P.CIRCUIT (AU)	1	SN756S APH
E23		F800L7B70SAP	ESCUTCHEON BASE (U)	1	SN756S APH
E26		F80724W70SAP	DOOR OPENING BUTTON (U)	1	SN756S APH
E27		F82564W00AP	DOOR OPENING LEVER	1	SN756S APH
E28		F80375K00AP	COOK BUTTON SPRING	1	
E29		F630Y8E20BAP	MEMBRANE SWITCH (U)	1	SN756S APH
E33		F81274W70APG	BACK PANEL	1	SN756S APH
E35		F00078E20SAP	NAME PLATE	1	SN756S APH

6.3.3. NN-SN756B APH, SN756BT APH, SA746M APH



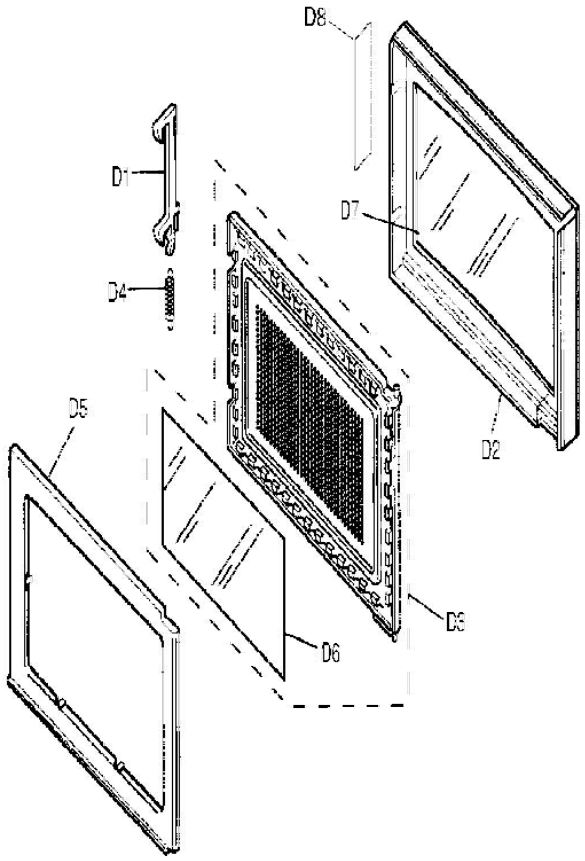
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
E41		F603L8E10AP	D.P.CIRCUIT (AU)	1	SN756B APH,SN756BT APH
E41		F603L7C60AP	D.P.CIRCUIT (AU)	1	SA746M APH
E43		F80346J00BAP	ESCUTCHEON BASE	1	SN756B APH,SN756BT APH
E43		F80346J00SAP	ESCUTCHEON BASE	1	SA746M APH
E46		F80726J00BAP	DOOR OPENING BUTTON	1	SN756B APH,SN756BT APH
E46		F80726J00SAP	DOOR OPENING BUTTON	1	SA746M APH
E47		F82564W00AP	DOOR OPENING LEVER	1	SN756B APH,SN756BT APH,SA746M APH
E48		F80375K00AP	COOK BUTTON SPRING	1	
E49		F630Y8E10BAP	MEMBRANE SWITCH (U)	1	SN756B APH,SN756BT APH
E49		F630Y8E30SAP	MEMBRANE SWITCH (U)	1	SA746M APH

6.4. PACKING AND ACCESSORIES



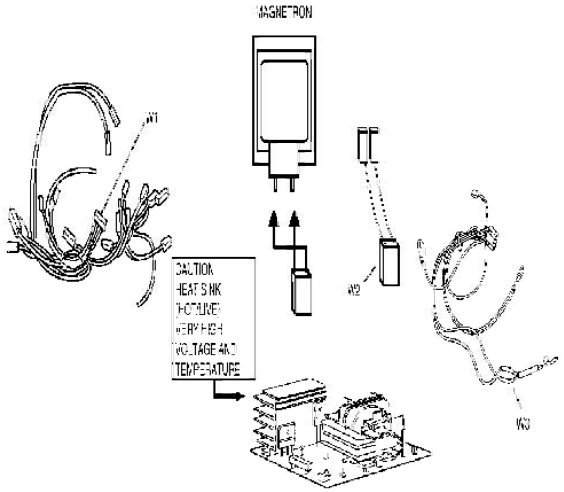
Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
P1		F00037C40AP	INSTRUCTION MANUAL	1	SN756S APH,SN756B APH,SN756BT APH
P1		F00037C50AP	INSTRUCTION MANUAL	1	SN776S APH
P1		F00037C50CP	INSTRUCTION MANUAL	1	SN776S CPH
P1		F00036J30AP	INSTRUCTION MANUAL	1	SA746M APH
P2		F01028E00SAP	PACKING CASE,PAPER	1	SN776S APH
P2		F01028E00SCP	PACKING CASE,PAPER	1	SN776S CPH
P2		F01028E20SAP	PACKING CASE,PAPER	1	SN756S APH
P2		F01028E10BAP	PACKING CASE,PAPER	1	SN756B APH,SN756BT APH
P2		F01028E30SAP	PACKING CASE,PAPER	1	SA746M APH
P3		F01044W00AP	UPPER FILLER	1	SN776S APH/CPH,SN756S APH
P3		F01045J00AP	UPPER FILLER	1	SN756B APH,SN756BT APH,SA746M APH
P4		F01054W00AP	LOWER FILLER	1	SN776S APH/CPH,SN756S APH
P4		F01055J00AP	LOWER FILLER	1	SN756B APH,SN756BT APH,SA746M APH
P5		F01067C50AP	P.E.BAG	1	EXCEPT SA746M APH
P5		F01064W00AP	P.E.BAG	1	SA746M APH
P6		F01074W00AP	DOOR SHEET	1	
P7		F06014W00AP	COOKING TRAY	1	
P8		F01084W00AP	TRAY PACKING	1	
P9		F00065G40AP	CAUTION LABEL	1	APH
P10		F02445Y00AP	CAUTION LABEL	1	SN776S CPH
P12		F01924U00AP	SHEET	1	EXCEPT SN776S CPH
P13		F04458E00SCP	OVERLAY	1	SN776S CPH
P14		F04317D00CP	UPPER-CABINET TEMPLATE	1	CPH

6.5. DOOR ASSEMBLY



Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
D1		F3018-1200	DOOR KEY A	1	
D2		F301A8E00SAP	DOOR A (U)	1	SN776S APH,SN756S APH
D2		F301A8E00SCP	DOOR A (U)	1	SN776S CPH
D2		F30016J00BAP	DOOR A	1	SN756B APH,SN756BT APH
D2		F30016J00SAP	DOOR A	1	SA746M APH
D3		F302K4W00AP	DOOR E (U)	1	
D4		F30215G10XN	DOOR KEY SPRING	1	
D5		F30854W00AP	DOOR C	1	
D6		F31454W00AP	DOOR SCREEN A	1	
D7		F31468E30BAP	DOOR SCREEN B	1	SN756B APH,SN756BT APH,SA746M APH
D8		F02459660AP	DHHS LABEL	1	SN776S APH,SN756S APH
D8		F04114180CP	HC LABEL	1	SN776S CPH

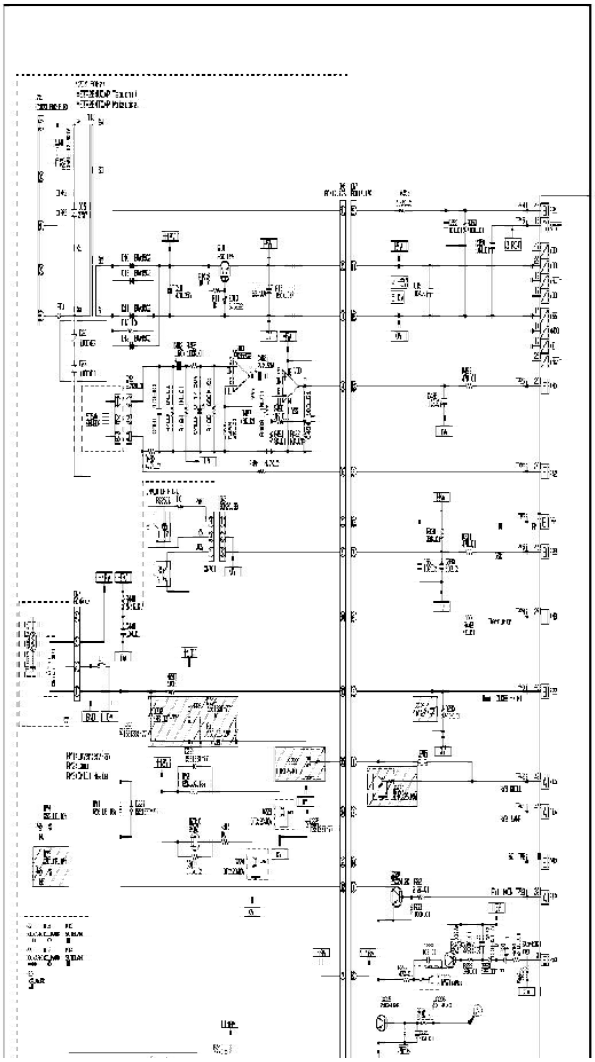
6.6. WIRING MATERIALS

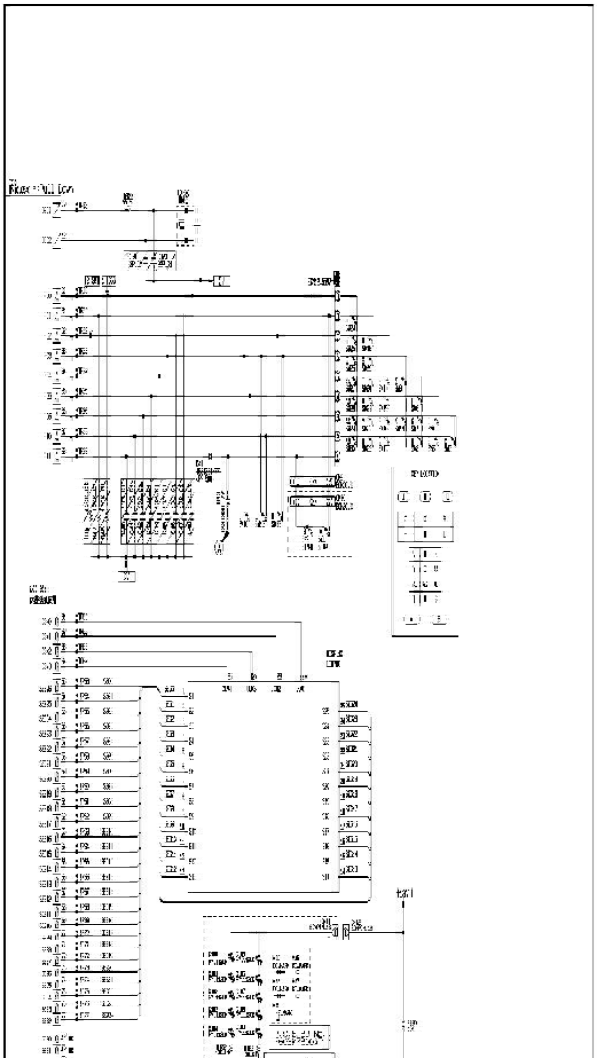


Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
W1		F030A7B70AP	LEAD WIRE HARNESS	1	APH
W1		F030A7B60CP	LEAD WIRE HARNESS	1	CPH
W2		F030E6G30AP	H.V.LEAD WIRE	1	APH
W2		F030E6J00CP	H.V.LEAD WIRE	1	CPH
W3		F03537B70AP	LEAD WIRE HARNESS(U)	1	(INCLUDING THERMISTOR)

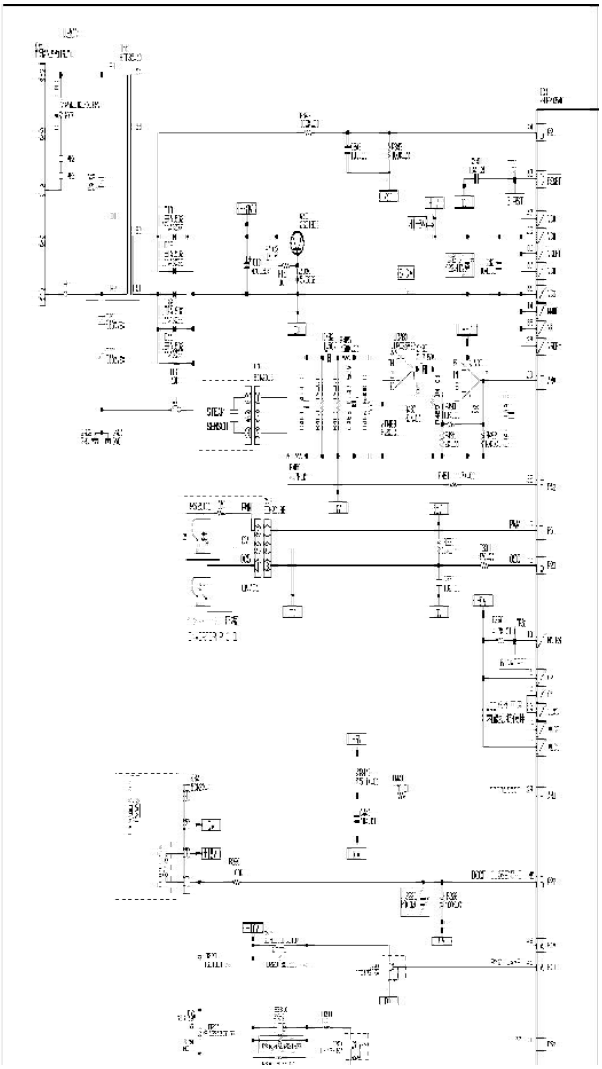
7. DIGITAL PROGRAMMER CIRCUIT

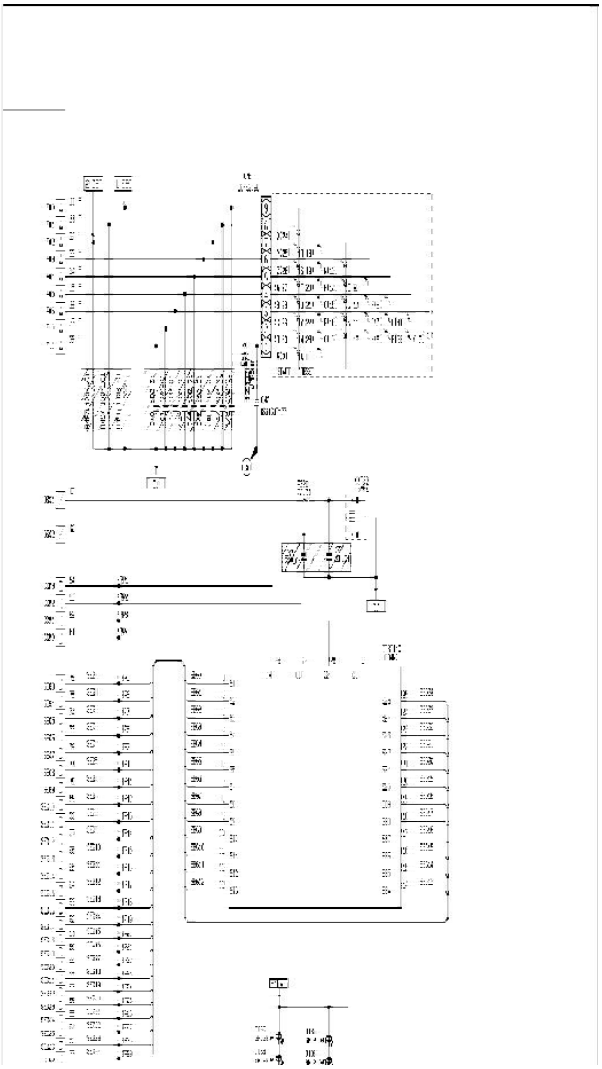
7.1. NN-SN776S APH/CPH



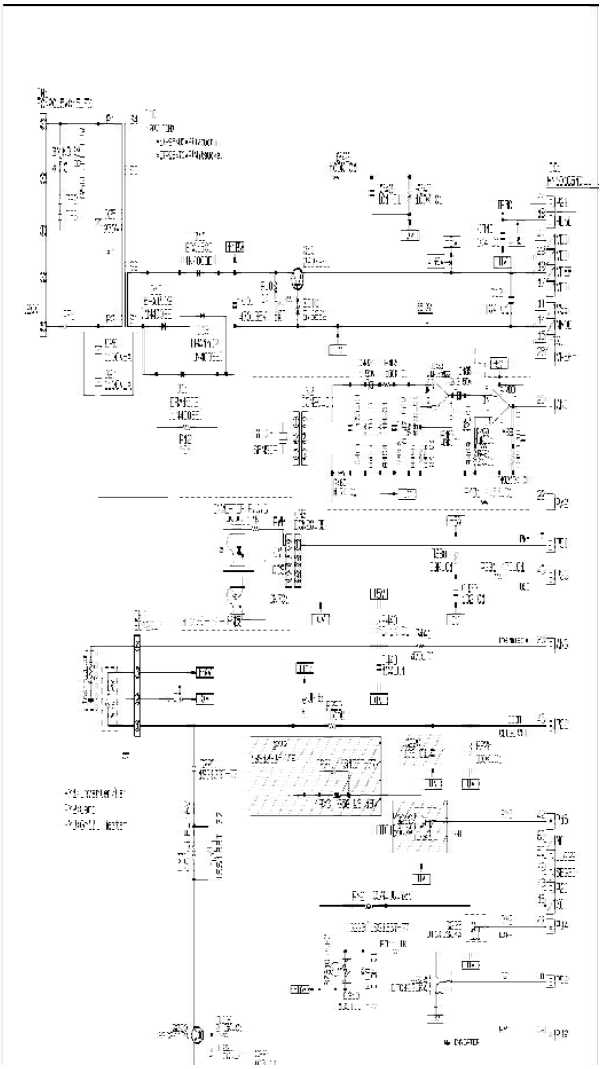


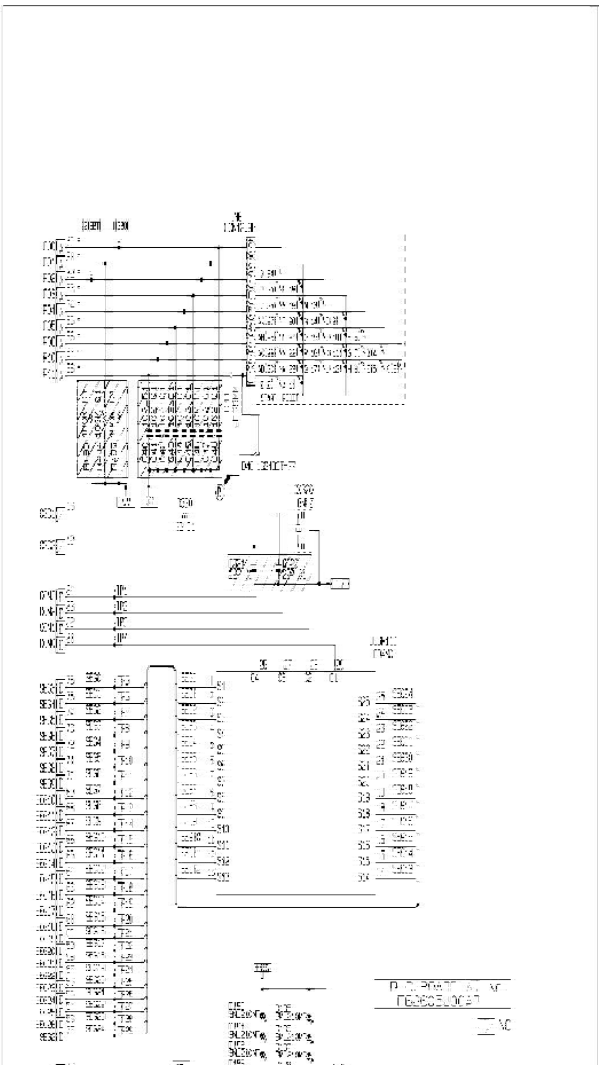
7.2. NN-SN756S APH





7.3. NN-SN756B APH, SN756BT APH, SA746M APH





7.4. PARTS LIST

7.4.1. NN-SN776S APH/CPH

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310		L0DDEA000014	BUZZER	1	2.0KHz
C10		AECETK1V471B	AL CHEM CAPACITOR	1	470 F/35V
C13		AECETS1C220B	AL CHEM CAPACITOR	1	22 F/16V
C482		AECETS1H010B	AL CHEM CAPACITOR	1	1 F/50V
C483		AECETS1HR47B	AL CHEM CAPACITOR	1	0.47 F/50V
C485		AECETS1H2R2B	AL CHEM CAPACITOR	1	2.2 F/16V
C15,C223,C350		F1H1A104A068	CHIP CAPACITOR	3	0.1 F/25V
C440		F1H1A104A108	CHIP CAPACITOR	1	0.1 F/25V
C220,C221		F1H1A105A068	CHIP CAPACITOR	2	1 F/10V
C222,C486,C484		F1H1H103A897	CHIP CAPACITOR	3	0.01 F/50V
C481		F1H1H473A897	CHIP CAPACITOR	1	0.047 F/50V
C330,C331		F1H1H102A896	CHIP CAPACITOR	2	1000PF/50V
C352		F1H1H101A894	CHIP CAPACITOR	1	100PF/50V
PIN1,PIN2		K4CE01000003	PIN	2	
CN2		K1KA03A00300	CONNECTOR	1	3Pin
CN3		K1KA03AA0115	CONNECTOR	1	
CN4		K1KA03AA01086	CONNECTOR	1	
CN6		K1MN09BA0072	CONNECTOR	1	
CN7		K1MN15B00083	CONNECTOR	1	15Pin
CN9,CN10		F03547B40AP	CONNECTOR	2	3Pin
CX320		EFOEC8004A4	CERAMIC RESONATOR	1	8.0MHz
DISP110		L5AAAFD00022	LCD	1	
DISP1 HOLDER		F66175W00AP	LCD HOLDER	1	
		F67525E40XN	DIFFUSION SHEET	1	
D10,D11,D12,D13		B0EAKT000025	DIODE	4	
D220,D221,D223,D225		B0AACK000004	DIODE	4	
D40,D220,D227		B0AACK000004	DIODE	3	
D180-D189		B3ACB0000065	CHIP DIODE	10	
IC1		MN101C54CFP	L.S.I.	1	
IC480		C0AABA000051	L.S.I.	1	
Q10,Q180		B1BAAJ000003	TRANSISTOR	2	
Q181,Q220,Q225		2SD0601A0L	CHIP TRANSISTOR	3	
Q182		UNR221M00L	CHIP TRANSISTOR	1	
Q221		2SB709A0L	CHIP TRANSISTOR	1	
Q222		UNR211100L	CHIP DIGI-TRANSISTOR	1	
Q223,Q224		B1GBCFEL0002	CHIP DIGI-TRANSISTOR	2	
R10		D0AE102JA155	CARBON RESISTOR	1	1K,1/4W,5%
R12,R180		D0AE103JA155	CARBON RESISTOR	2	10K,1/4W,5%
R290		D0AE104JA155	CARBON RESISTOR	1	100K,1/4W,5%
R25		AERZ27KD10A	ZENER RESISTOR	1	270V
R26,D27		AERZ102KD10A	ZENER RESISTOR	2	1000V(SN776S CPH)
SW1,SW2,SW10,SW12,SW13		EVQ11L05R	SWITCH	5	
VZ340		D3CA6103A017	VARISTOR	1	
ZD10		B0BA5R600016	ZENER DIODE	1	
T10		G4C2AAD00006	LOW VOLTAGE TRANSFORMER	1	120V

7.4.2. NN-SN756S APH, SN756B APH, SN756BT APH, SA746M APH

Ref. No.		Part No.	Part Name & Description	Pcs/Set	Remarks
BZ310		L0DDEA000014	BUZZER	1	2.0KHz
C10		AECETK1V471B	AL CHEM CAPACITOR	1	470 F/35V
C482		AECETS1H010B	AL CHEM CAPACITOR	1	1 F/50V
C483		AECETS1HR47B	AL CHEM CAPACITOR	1	0.47 F/50V
C485		AECETS1H2R2B	AL CHEM CAPACITOR	1	2.2 F/50V
C12,C440,C340		F1H1A104A068	CHIP CAPACITOR	3	0.1 F/25V
C221,C484		F1H1H103A897	CHIP CAPACITOR	2	0.01 F/50V
C330		F1H1H102A896	CHIP CAPACITOR	1	1000PF/50V
C343		F1H1H101A894	CHIP CAPACITOR	1	100PF/50V
CN1		K1KA03AA0115	CONNECTOR	1	
CN2		K1KA03A00299	CONNECTOR	1	3Pin
CN4		K1KA04AA0086	CONNECTOR	1	15Pin
CN6		K1MN09BA0072	CONNECTOR	1	
CN3		F03524U50AP	INV.PARTS	1	
CX320		EFOEC8004A4	CERAMIC RESONATOR	1	8.0MHz
DISP110		L5AAAFD00019	LCD	1	
DISP1 HOLDER		F66175E40XN	LCD HOLDER	1	
		F67525E40XN	DIFFUSION SHEET	1	
D10,D11,D12,D13		B0EAKT000025	DIODE	4	
D25		AERZ271KSBN	DIODE	1	
D40,D220,D221,D223		B0AACK000004	DIODE	4	
D180-D189		B3ACB0000065	CHIP DIODE	10	
IC1		MN101C54CFP	L.S.I.	1	
IC480		C0AABA000051		1	
Q10,Q180		B1BAAJ000003	TRANSISTOR	2	
Q181,Q220,Q225		2SD0601A0L	CHIP TRANSISTOR	3	
Q182,Q223,Q224		UNR221M00L	CHIP TRANSISTOR	3	
Q226		UNR211100L	CHIP DIGI-TRANSISTOR	1	
R10,R11,R311		D0AE102JA155	CARBON RESISTOR	3	1K ,1/4W,5%
R12,R180		D0AE103JA155	CARBON RESISTOR	2	10K ,1/4W,5%
R290		D0AE104JA155	CARBON RESISTOR	1	100K ,1/4W,5%
RY1		AEBGJQC25F18	POWER RELAY	1	
RY2		K6B1AZA00011	POWER RELAY	1	
VZ340		D3CA6103A017	VARISTOR	1	
ZD10		B0BA5R600016	ZENER DIODE	1	
T10		G4C2AAD00006	LOW VOLTAGE TRANSFORMER	1	120V

/ / / / / / / / / / 01/06 / S-8E0 / S-8E1 / S-8E2 / S-8E3 / iPress0285 / Printed in China